

TABLE 63

**Federal obligations for research performed at universities and colleges in physical sciences, by selected agency and detailed field: FY 2019**

(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies surveyed	2,198,843.0	209,738.8	521,424.8	852,739.6	614,939.7
Departments					
Department of Agriculture	18,958.9	0.0	18,683.9	275.0	0.0
Agricultural Research Service	7,356.5	0.0	7,081.5	275.0	0.0
Forest Service	191.0	0.0	191.0	0.0	0.0
National Institute of Food and Agriculture	11,411.5	0.0	11,411.5	0.0	0.0
Department of Defense	271,978.5	685.2	58,313.6	194,294.1	18,685.6
Defense Advanced Research Projects Agency	49,581.9	0.0	14,862.9	34,718.9	0.0
Department of the Air Force	148,459.1	120.2	12,217.1	126,571.4	9,550.4
Department of the Army	13,913.5	0.0	5,265.4	5,173.4	3,474.7
Department of the Navy	15,419.1	565.0	4,021.1	5,172.6	5,660.5
Other defense agencies	44,605.0	0.0	21,947.1	22,657.8	0.0
Department of Energy	551,868.3	0.0	139,467.0	398,649.9	13,751.4
Advanced Research Projects Agency—Energy	20,635.8	0.0	10,728.5	9,907.2	0.0
Fossil Energy	33,000.0	0.0	33,000.0	0.0	0.0
National Nuclear Security Administration	14,451.4	0.0	0.0	700.0	13,751.4
Defense Programs	700.0	0.0	0.0	700.0	0.0
Office of Defense Nuclear Nonproliferation	13,751.4	0.0	0.0	0.0	13,751.4
Office of Science	483,781.1	0.0	95,738.5	388,042.7	0.0
Department of Health and Human Services	66,875.6	0.0	65,860.4	0.0	1,015.2
National Institutes of Health	66,875.6	0.0	65,860.4	0.0	1,015.2
Department of Homeland Security	804.9	0.0	699.4	0.0	105.5
Science and Technology Directorate	804.9	0.0	699.4	0.0	105.5
Other agencies					
National Aeronautics and Space Administration	506,763.3	118,991.2	0.0	1,714.4	386,057.7
National Science Foundation	781,593.4	90,062.4	238,400.5	257,806.2	195,324.4

**Note(s):**

Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented more than 97% of total federal research obligations to universities and colleges in FY 2019. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See technical table A-2 for additional notes associated with the agencies listed in this table.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2019–20.